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October 30, 2019

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Administrator
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, South Carolina 29211

RE: Duke Energy Carolinas, LLC – Monthly Fuel Cost Report and Base Load Power Plant Performance Report
Docket No. 1989-9-E

Dear Ms. Boyd:

Pursuant to the Commission's Orders in the above captioned docket, enclosed please find the following reports for the month of September 2019.

1. Monthly Fuel Cost Report for September 2019 (Exhibit A).

2. Base Load Power Plant Performance Report for September 2019 (Exhibit B).

Thank you for your attention to this matter.

Sincerely,

Rebecca J. Dulin

Enclosures

cc: Ms. Dawn Hipp, Office Regulatory Staff
Mr. Scott Elliott, Elliott & Elliott, P.A.
Ms. Nanette Edwards, Office Regulatory Staff
Mr. Jeff Nelson, Office Regulatory Staff
Mr. Michael Seaman-Huynh, Office of Regulatory Staff
Ms. Heather Shirley Smith, Duke Energy

DUKE ENERGY CAROLINAS
SUMMARY OF MONTHLY FUEL REPORT

Line No.		September 2019
1	Fuel and Fuel-related Costs excluding DERP incremental costs	$ 168,462,870
	MWH sales:	
2	Total system sales.	8,428,707
3	Less intersystem sales	147,685
4	Total sales less intersystem sales	8,281,022
5	Total fuel and fuel-related costs (¢/KWH) (line 1/line 4)	2.0343
6	Current fuel and fuel-related cost component (¢/KWH) (per Schedule 4, Line 2 + Line 10 + Line 18)	2.0920
	Generation Mix (MWH):	
	Fossil (by primary fuel type):	
7	Coal	2,248,571
8	Fuel Oil	5,274
9	Natural Gas - Combined Cycle	1,406,336
10	Natural Gas - Combustion Turbine	180,915
11	Natural Gas - Steam	30,449
12	Biogas	480
13	Total fossil	3,872,025
14	Nuclear 100%	4,651,839
15	Hydro - Conventional	69,641
16	Hydro - Pumped storage	(72,667)
17	Total hydro	(3,026)
18	Solar Distributed Generation	14,493
19	Total MWH generation	8,535,331
20	Less joint owners' portion - Nuclear	924,298
21	Less joint owners' portion - Combined Cycle	71,307
22	Adjusted total MWH generation	7,539,726

Note: Detail amounts may not add to totals shown due to rounding.

Exhibit A
Schedule 2

DUKE ENERGY CAROLINAS
DETAILS OF FUEL AND FUEL-RELATED COSTS

Fuel and fuel-related costs:	September 2019
Steam Generation - Account 501	
0501110 coal consumed - steam	$ 70,874,752
0501310 fuel oil consumed - steam	264,074
0501330 fuel oil light-off - steam	470,190
Total Steam Generation - Account 501	71,609,016
Nuclear Generation - Account 518	
0518100 burnup of owned fuel	22,502,111
Other Generation - Account 547	
0547100, 0547124 natural gas consumed - Combustion Turbine	5,455,202
0547100, 0547124 natural gas capacity - Combustion Turbine	767,521
0547100 natural gas consumed - Steam	852,102
0547101 natural gas consumed - Combined Cycle	25,482,752
0547101 natural gas capacity - Combined Cycle	3,014,471
0547106 biogas consumed - Combined Cycle	20,083
0547200 fuel oil consumed - Combustion Turbine	66,686
Total Other Generation - Account 547	35,658,817
Purchased Power and Net Interchange - Account 555	
Fuel and fuel-related component of purchased power	35,275,725
Fuel and fuel-related component of DERP purchases	26,351
PURPA purchased power capacity	4,362,373
DERP purchased power capacity	3,716
Total Purchased Power and Net Interchange - Account 555	39,668,165
Less:	
Fuel and fuel-related costs recovered through intersystem sales	3,491,503
Fuel in loss compensation	99,834
Solar Integration Charge	1,082
Total Fuel Credits - Account 447/456	3,592,419
Environmental Costs	
0509000, 0557451 emission allowance expense	502
0502020, 0502030, 0502040, 0502082, 0548020 reagent expense	2,426,064
0502080, 0502083, 0502090, 0502150 sorbent expense	252,332
Emission allowance gains	-
Less reagents expense recovered through intersystem sales - Account 447	43,072
Less emissions expense recovered through intersystem sales - Account 447	18,649
Total Environmental Component of Recovery	2,617,177
Total Fuel and Fuel-related Costs excluding DERP incremental costs	$ 168,462,870
DERP incremental costs	495,369
Total Fuel and Fuel-related Costs to be Recovered	$ 168,958,239

Notes: Detail amounts may not add to totals shown due to rounding.
Report reflects net ownership costs of jointly owned facilities.

DUKE ENERGY CAROLINAS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA

September 2019

Purchased Power	Total	Capacity	Non-capacity		
Marketers, Utilities, Other	$	$	mWh	Fuel $	Non-fuel $
Blue Ridge Electric Membership Corp.	$ 1,329,437	$ 762,005	24,131	$ 567,432	-
Haywood Electric	340,940	172,178	6,687	168,762	-
Macquarie Energy, LLC	4,301,299	-	88,951	4,301,299	-
NCEMC	1,331,037	4,657	27,510	1,326,380	-
NCMPA	624,508	-	26,623	624,508	-
NTE Carolinas LLC	1,361,660	-	30,910	1,361,660	-
Piedmont Electric Membership Corp.	636,058	360,960	11,520	275,098	-
Piedmont Municipal Power Agency	26,209	-	1,397	26,209	-
PJM Interconnection, LLC.	264,704	-	1,400	41,595	$ 223,109
South Carolina Electric & Gas Company / Dominion Energy	11,400	-	300	11,400	-
Southern Company Services, Inc.	453,540	-	9,244	453,540	-
Town of Dallas	584	584	-	-	-
Town of Forest City	19,856	19,856	-	-	-
DE Progress - As Available Capacity	82,737	82,737	-	-	-
DE Progress - Native Load Transfer	16,078,561	-	697,597	16,120,847	(42,286)
DE Progress - Native Load Transfer Benefit	1,873,258	-	-	1,873,258	-
DE Progress - Fees	2,970	-	-	2,970	-
Generation Imbalance	178,860	-	5,789	80,851	98,009
Energy Imbalance - Purchases	56,673	-	(3,679)	35,200	21,473
Energy Imbalance - Sales	(176,434)	-	-	(163,461)	(12,973)
	$ 28,797,857	**$ 1,402,977**	**928,380**	**$ 27,107,548**	**$ 287,332**
Act 236 PURPA Purchases					
Cherokee County Cogeneration Partners	$ 2,211,550	$ 640,098	54,421	$ 1,571,452	
Renewable Energy	7,666,254	2,449,375	99,948	5,216,879	
DERP	39,487	3,716	660	26,351	9,420
Other Qualifying Facilities	3,962,049	1,272,900	55,163	2,583,768	105,381
	$ 13,879,340	**$ 4,366,089**	**210,192**	**$ 9,398,450**	**$ 114,801**
Other Purchases	**$ 799**	**$ -**	**23**	**$ -**	**$ 799**
Total Purchased Power	**$ 42,677,996**	**$ 5,769,066**	**1,138,595**	**$ 36,505,998**	**$ 402,932**
Interchanges In					
Other Catawba Joint Owners	4,963,145	-	466,721	3,002,825	1,960,320
WS Lee Joint Owner	1,022,949	-	46,238	835,491	187,458
Total Interchanges In	5,986,094	-	512,959	3,838,315	2,147,778
Interchanges Out					
Other Catawba Joint Owners	(7,070,714)	(129,880)	(657,202)	(4,235,012)	(2,705,822)
Catawba- Net Negative Generation	(23,970)	-	(1,200)	(20,135)	(3,835)
WS Lee Joint Owner	(974,931)	-	(42,324)	(787,090)	(187,841)
Total Interchanges Out	(8,069,615)	(129,880)	(700,726)	(5,042,237)	(2,897,498)
Net Purchases and Interchange Power	**$ 40,594,475**	**$ 5,639,186**	**950,828**	**$ 35,302,076**	**$ (346,788)**

NOTE: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY CAROLINAS
INTERSYSTEM SALES*
SOUTH CAROLINA

SEPTEMBER 2019

Sales	Total $	Capacity $	Non-capacity mWh	Non-capacity Fuel $	Non-capacity Non-fuel $
Utilities:					
SC Electric & Gas - Emergency	$ 545	-	-	$ -	$ 545
Market Based:					
Central Electric Power Cooperative, Inc.	458,000	$ 458,000	-	-	-
NCMPA	200,681	87,500	2,353	117,352	(4,171)
PJM Interconnection, LLC.	29,666	-	737	21,670	7,996
Other:					
DE Progress - Native Load Transfer Benefit	223,974	-	-	223,974	-
DE Progress - Native Load Transfer	3,304,159	-	140,785	3,108,834	195,325
Generation Imbalance	105,713	-	3,810	81,394	24,319
BPM Transmission	(88,407)	-			(88,407)
Total Intersystem Sales	**$ 4,234,331**	**$ 545,500**	**147,685**	**$ 3,553,224**	**$ 135,607**

* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

Duke Energy Carolinas
(Over) / Under Recovery of Fuel Costs
September 2019

Line No.			Residential	Commercial	Industrial	Total
1	Actual System kWh sales	Input				8,281,021,662
2	DERP Net Metered kWh generation	Input				10,388,770
3	Adjusted System kWh sales	L1 + L2				8,291,410,432
4	Actual S.C. Retail kWh sales	Input	661,232,806	547,990,937	811,166,727	2,020,390,470
5	DERP Net Metered kWh generation	Input	6,236,589	2,331,405	1,820,776	10,388,770
6	Adjusted S.C. Retail kWh sales	L4 + L5	667,469,395	550,322,342	812,987,503	2,030,779,240
	Base fuel component of recovery: non-capacity					
7	Incurred System base fuel - non-capacity expense	Input				$157,671,260
8	Eliminate avoided fuel benefit of S.C. net metering	Input				337,558
9	Adjusted Incurred System base fuel - non-capacity expense	L7 + L8				$158,008,818
10	Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L9 / L3 * 100				1.9057
11	S.C. Retail portion of adjusted incurred system expense	L6 * L10 / 100	$12,719,917	$10,487,454	$15,493,045	$38,700,416
12	Assign 100 % of Avoided Fuel Benefit of S.C net metering	Input	(172,999)	(80,680)	(83,879)	(337,558)
13	S.C. Retail portion of incurred system expense	L11 + L12	$12,546,918	$10,406,774	$15,409,166	$38,362,858
14	Billed base fuel - non-capacity rate (¢/kWh)	Input	1.9648	1.9648	1.9648	1.9648
15	Billed base fuel - non-capacity revenue	L4 * L14 / 100	$12,991,902	$10,766,926	$15,937,804	$39,696,632
16	DERP NEM incentive - fuel component	Input	(73,708)	(34,375)	(35,737)	(143,820)
17	Adjusted S.C. billed base fuel - non-capacity revenue	L15 + L16	$12,918,194	$10,732,551	$15,902,067	$39,552,812
18	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L17 - L13	($371,276)	($325,777)	($492,901)	($1,189,954)
19	Adjustment	Input	-	-	-	-
20	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L18 + L19	($371,276)	($325,777)	($492,901)	($1,189,954)
	Base fuel component of recovery: capacity					
21	Incurred base fuel - capacity rates by class (¢/kWh)	Input	0.1540	0.0867	0.0609	0.0983
22	Incurred S.C. base fuel - capacity expense	L4 * L21 / 100	$1,018,365	$474,928	$493,756	$1,987,049
23	Billed base fuel - capacity rates by class (¢/kWh)	Input	0.1274	0.1158	0.0901	0.1093
24	Billed S.C. base fuel - capacity revenue	L4 * L23 / 100	842,411	634,574	730,861	2,207,846
25	S.C. base fuel - capacity (over)/under recovery [See footnote]	L24 - L22	175,954	(159,646)	(237,105)	(220,797)
26	Adjustment	Input	-	-	-	-
27	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L25 + L26	$175,954	($159,646)	($237,105)	($220,797)
	Environmental component of recovery					
28	Incurred environmental rates by class (¢/kWh)	Input	0.0495	0.0279	0.0196	0.0316
29	Incurred S.C. environmental expense	L4 * L28 / 100	$327,250	$152,617	$158,668	$638,535
30	Billed environmental rates by class (¢/kWh)	Input	0.0166	0.0193	0.0168	0.0174
31	Billed S.C. environmental revenue	L4 * L30 / 100	109,765	105,762	136,276	351,803
32	S.C. environmental (over)/under recovery [See footnote]	L31 - L29	217,485	46,855	22,392	286,732
33	Adjustment	Input	-	-	-	-
34	Total S.C. environmental (over)/under recovery [See footnote]	L32 + L33	$217,485	$46,855	$22,392	$286,732

Duke Energy Carolinas
(Over) / Under Recovery of Fuel Costs
September 2019

Line No.			Residential	Commercial	Industrial	Total
Distributed Energy Resource Program component of recovery: avoided costs						
35	Incurred S.C. DERP avoided cost rates by class (¢/kWh)	Input	0.0006	0.0003	0.0002	0.0004
36	Incurred S.C. DERP avoided cost expense	L4 * L35 / 100	$3,760	$1,753	$1,823	$7,336
37	Billed S.C. DERP avoided cost rates by class (¢/kWh)	Input	0.0006	0.0005	0.0004	0.0005
38	Billed S.C. DERP avoided cost revenue	L4 * L37 / 100	3,967	2,740	3,245	9,952
39	S.C. DERP avoided cost (over)/under recovery [See footnote]	L38 - L36	(207)	(987)	(1,422)	(2,616)
40	Adjustment	Input	-	-	-	-
41	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L39 + L40	($207)	($987)	($1,422)	($2,616)
Distributed Energy Resource Program component of recovery: incremental costs						
42	Incurred S.C. DERP incremental expense	Input	$253,059	$118,017	$122,696	$493,772
43	Billed S.C. DERP incremental rates ($/account)	Input	$0.89	$4.28	$99.56	
44	Billed S.C. DERP incremental revenue	Input	446,943	329,277	151,235	927,455
45	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L42	(193,884)	(211,260)	(28,539)	(433,683)
46	Adjustment	Input	-	-	-	-
47	Total S.C. DERP incremental (over)/under recovery [See footnote]	L45 + L46	($193,884)	($211,260)	($28,539)	($433,683)
48	Total S.C. Retail (over)/under recovery [See footnote]	L20 + L27 + L34 + L41 + L47	(171,928)	(650,815)	(737,575)	(1,560,318)

Year 2018-2019

	Cumulative (over) / under recovery - BASE FUEL NON-CAPACITY	**Cumulative**	Residential	Commercial	Industrial	Total Company
_/1	Balance ending May 2018	$64,562,410				
	June 2018 - actual	68,657,779	1,313,984	1,104,598	1,676,787	4,095,369
	July 2018 - actual	74,109,473	1,918,193	1,509,942	2,023,559	5,451,694
	August 2018 - actual	79,557,480	1,778,046	1,439,863	2,230,098	5,448,007
	September 2018 - actual	78,314,056	(314,858)	(317,868)	(610,698)	(1,243,424)
_/2, _/3	October 2018 - actual	82,454,493	1,429,090	1,306,714	1,404,633	4,140,437
_/2	November 2018 - actual	84,389,411	569,756	493,825	871,337	1,934,918
	December 2018 - actual	88,123,264	1,360,141	913,578	1,460,134	3,733,853
_/3	January 2019 - actual	88,266,730	74,036	35,086	34,344	143,466
	February 2019 - actual	93,039,011	1,645,342	1,177,747	1,949,192	4,772,281
	March 2019 - actual	91,131,763	(565,660)	(496,983)	(844,605)	(1,907,248)
	April 2019 - actual	87,146,255	(1,034,478)	(1,048,872)	(1,902,158)	(3,985,508)
	May 2019 - actual	87,176,757	34,404	6,547	(10,449)	30,502
	June 2019 - actual	83,215,417	(1,219,800)	(1,055,550)	(1,685,990)	(3,961,340)
	July 2019 - actual	85,386,585	766,937	598,765	805,466	2,171,168
	August 2019 - actual	83,583,957	(581,904)	(486,138)	(734,586)	(1,802,628)
	September 2019 - actual	82,394,003	(371,276)	(325,777)	(492,901)	(1,189,954)

Duke Energy Carolinas
(Over) / Under Recovery of Fuel Costs
September 2019

Line No.

Year 2018-2019

	Cumulative (over) / under recovery - BASE FUEL CAPACITY	**Cumulative**	Residential	Commercial	Industrial	Total Company
_/1	Beginning Balance	(910,631)				
	June 2018 - actual	(1,231,472)	(168,835)	(109,798)	(42,208)	(320,841)
	July 2018 - actual	(705,685)	97,201	127,214	301,372	525,787
	August 2018 - actual	(167,087)	148,770	144,110	245,718	538,598
	September 2018 - actual	(447,925)	(122,234)	(59,118)	(99,486)	(280,838)
_/2, _/3	October 2018 - actual	(768,992)	(155,607)	(165,705)	245	(321,067)
_/2	November 2018 - actual	(1,316,322)	(92,070)	(155,477)	(299,783)	(547,330)
	December 2018 - actual	(2,417,453)	(465,350)	(270,393)	(365,388)	(1,101,131)
	January 2019 - actual	(3,301,777)	(276,593)	(266,449)	(341,282)	(884,324)
	February 2019 - actual	(4,252,925)	(255,719)	(273,449)	(421,980)	(951,148)
	March 2019 - actual	(5,223,777)	(242,726)	(298,361)	(429,765)	(970,852)
	April 2019 - actual	(5,894,084)	(11,486)	(238,213)	(420,608)	(670,307)
	May 2019 - actual	(6,283,595)	146,654	(199,901)	(336,264)	(389,511)
	June 2019 - actual	(6,766,248)	46,028	(204,425)	(324,256)	(482,653)
	July 2019 - actual	(6,423,874)	435,923	(37,726)	(55,823)	342,374
	August 2019 - actual	(6,040,227)	481,932	(10,865)	(87,420)	383,647
	September 2019 - actual	(6,261,024)	175,954	(159,646)	(237,105)	(220,797)

Year 2018-2019

	Cumulative (over) / under recovery - ENVIRONMENTAL	**Cumulative**	Residential	Commercial	Industrial	Total Company
_/1	Beginning Balance	(1,461,871)				
	June 2018 - actual	(1,205,987)	146,842	32,175	76,867	255,884
	July 2018 - actual	(1,154,405)	48,770	(30,136)	32,948	51,582
	August 2018 - actual	(1,205,110)	23,971	(50,943)	(23,733)	(50,705)
	September 2018 - actual	(1,388,163)	126	(79,741)	(103,438)	(183,053)
_/2	October 2018 - actual	(1,458,759)	(2,312)	(60,262)	(8,022)	(70,596)
_/2	November 2018 - actual	(1,348,880)	80,334	29,032	513	109,879
	December 2018 - actual	(1,291,265)	38,565	18,548	502	57,615
	January 2019 - actual	(1,191,028)	101,872	10,400	(12,035)	100,237
	February 2019 - actual	(1,312,637)	(3,068)	(40,317)	(78,224)	(121,609)
	March 2019 - actual	(1,223,735)	105,076	7,752	(23,926)	88,902
	April 2019 - actual	(1,144,962)	111,893	4,409	(37,529)	78,773
	May 2019 - actual	(965,535)	166,717	23,363	(10,653)	179,427
	June 2019 - actual	(672,086)	219,527	52,209	21,713	293,449
	July 2019 - actual	(315,575)	248,540	60,980	46,991	356,511
	August 2019 - actual	70,934	268,872	71,162	46,475	386,509
	September 2019 - actual	357,666	217,485	46,855	22,392	286,732

Duke Energy Carolinas
(Over) / Under Recovery of Fuel Costs
September 2019

Line No.

Year 2018-2019
Cumulative (over) / under recovery - DERP AVOIDED COSTS

		Cumulative	Residential	Commercial	Industrial	Total Company
_/1	Beginning Balance	(24,303)				
	June 2018 - actual	(13,251)	9,165	2,683	(796)	11,052
	July 2018 - actual	(879)	10,304	2,796	(728)	12,372
	August 2018 - actual	10,664	9,627	2,710	(794)	11,543
	September 2018 - actual	23,085	10,480	3,062	(1,121)	12,421
_/2	October 2018 - actual	25,717	3,255	486	(1,109)	2,632
_/2	November 2018 - actual	18,004	(2,549)	(2,100)	(3,064)	(7,713)
	December 2018 - actual	9,149	(3,757)	(2,216)	(2,882)	(8,855)
	January 2019 - actual	237	(3,927)	(2,271)	(2,714)	(8,912)
	February 2019 - actual	(4,097)	(1,327)	(1,142)	(1,865)	(4,334)
	March 2019 - actual	(2,941)	1,614	65	(523)	1,156
	April 2019 - actual	(614)	2,567	288	(528)	2,327
	May 2019 - actual	(1,471)	990	(593)	(1,254)	(857)
	June 2019 - actual	(2,092)	851	(443)	(1,029)	(621)
	July 2019 - actual	(5,880)	(940)	(1,320)	(1,528)	(3,788)
	August 2019 - actual	(8,782)	(377)	(1,032)	(1,493)	(2,902)
	September 2019 - actual	(11,398)	(207)	(987)	(1,422)	(2,616)

Year 2018-2019
Cumulative (over) / under recovery - DERP INCREMENTAL COSTS

		Cumulative	Residential	Commercial	Industrial	Total Company
_/1	Balance ending May 2018	(966,265)				
	June 2018 - actual	(449,883)	289,414	95,385	131,583	516,382
	July 2018 - actual	85,285	297,559	99,538	138,071	535,168
	August 2018 - actual	643,476	306,707	106,165	145,319	558,191
	September 2018 - actual	1,162,309	263,870	107,060	147,903	518,833
_/2	October 2018 - actual	1,458,476	111,032	26,537	158,598	296,167
_/2	November 2018 - actual	1,459,229	(86,182)	(63,094)	150,029	753
	December 2018 - actual	1,471,614	(81,612)	(59,227)	153,224	12,385
	January 2019 - actual	1,432,376	9,232	(115,256)	66,786	(39,238)
	February 2019 - actual	1,344,867	(15,961)	(125,035)	53,487	(87,509)
	March 2019 - actual	1,366,838	40,294	(99,958)	81,635	21,971
	April 2019 - actual	(286,304)	(818,859)	(499,726)	(334,557)	(1,653,142)
	May 2019 - actual	(474,031)	(67,487)	(150,947)	30,707	(187,727)
	June 2019 - actual	(851,594)	(167,262)	(193,565)	(16,736)	(377,563)
	July 2019 - actual	(1,289,813)	(194,017)	(213,903)	(30,299)	(438,219)
	August 2019 - actual	(1,717,233)	(190,305)	(208,908)	(28,207)	(427,420)
	September 2019 - actual	(2,150,916)	(193,884)	(211,260)	(28,539)	(433,683)

Notes:

Detail amounts may not recalculate due to percentages presented as rounded.

Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts.
Under collections, or regulatory assets, are shown as positive amounts.

_/1 May 2018 ending balance reflects adjustments pursuant to the docket no. 2018-3-E directive. The total adjustment of $4,655 was made to the May ending balance
_/2 Reflects a prorated rate and prorated allocation factor for periods in which the approved rates changed.
_/3 Includes prior period adjustments.

DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED COST REPORT
SEPTEMBER 2019

Description	Allen Steam	Belews Creek Steam	Buck CC	Catawba Nuclear	Cliffside Steam - Dual Fuel	Dan River CC	Lee CC	Lee Steam/CT	Lincoln CT	Marshall Steam	McGuire Nuclear	Mill Creek CT	Oconee Nuclear	Rockingham CT	Current Month	Total 12 ME September 2019
Cost of Fuel Purchased ($)																
Coal	$5,040,690	$16,735,914			$18,566,435					$5,635,886					$45,978,924	$649,318,640
Oil	441,087	241,426	-		43,334	-	-	-	-	117,889		-		-	843,735	15,732,497
Gas - CC			$8,990,193			$9,114,329	$11,766,421								29,870,943	369,567,379
Gas - CT								56,067	$383,196			$1,224,896		$4,558,564	6,222,724	43,789,288
Gas - Steam					852,102			(0)							852,102	44,501,301
Biogas			91,628			(14)	-								91,613	2,356,163
Total	$5,481,777	$16,977,339	$9,081,820		$19,461,871	$9,114,315	$11,766,421	$56,067	$383,196	$5,753,775		$1,224,896		$4,558,564	$83,860,041	$1,125,265,268
Average Cost of Fuel Purchased (¢/MBTU)																
Coal	281.75	277.06			263.20	-				295.60					273.84	342.88
Oil	1,466.60	1,471.16			1,413.64			-	-	1,434.56		-		-	1,460.53	857.00
Gas - CC			295.63			295.17	298.22								295.40	349.94
Gas - CT								413.54	303.43			295.74		296.62	297.62	339.54
Gas - Steam					292.68			676.84							292.68	370.89
Biogas			2,637.53		.	-	-								2,637.11	1,698.77
Weighted Average	301.34	280.29	298.30		264.85	295.17	298.22	413.54	303.43	300.49		295.74		296.62	286.13	349.62
Cost of Fuel Burned ($)																
Coal	$12,648,775	$22,182,187			$7,681,909	-	-	-		$28,361,881					$70,874,752	$674,720,867
Oil - CC			-			-	-								-	-
Oil - Steam/CT	424,434	135,106			54,930			47,401	$19,285	119,795		-		-	800,951	16,086,650
Gas - CC			$8,990,193			$9,114,329	$11,766,421								29,870,943	369,567,379
Gas - CT								$56,067	383,196			$1,224,896		$4,558,564	6,222,724	43,789,288
Gas - Steam					852,102			(0)							852,102	44,501,301
Biogas			91,628			(14)	-								91,613	2,356,163
Nuclear				$6,760,845							$10,127,509		$11,073,410		27,961,764	361,451,226
Total	$13,073,209	$22,317,294	$9,081,820	$6,760,845	$8,588,941	$9,114,315	$11,766,421	$103,468	$402,482	$28,481,675	$10,127,509	$1,224,896	$11,073,410	$4,558,564	$136,674,848	$1,512,472,874
Average Cost of Fuel Burned (¢/MBTU)																
Coal	343.62	313.32			288.42			-		344.95					327.43	344.15
Oil - CC															-	-
Oil - Steam/CT	1,452.84	1,439.29			1,452.01			1,687.47	1,516.14	1,462.51		-		-	1,465.44	1,511.55
Gas - CC			295.63			295.17	298.22								295.40	349.94
Gas - CT								413.54	303.43			295.74		296.62	297.62	339.54
Gas - Steam					292.68			676.84							292.68	370.89
Biogas			2,637.53			-	-								2,637.11	1,698.77
Nuclear				57.54							59.52		58.49		58.62	59.33
Weighted Average	352.36	314.81	298.30	57.54	290.33	295.17	298.22	632.18	315.53	346.07	59.52	295.74	58.49	296.62	166.96	161.41
Average Cost of Generation (¢/kWh)																
Coal	3.72	2.87			2.74	-	-	-	-	3.31					3.15	3.31
Oil - CC			-			-	-								-	-
Oil - Steam/CT	15.82	13.17			12.92	-	-	26.12	21.13	13.82		-		-	15.19	15.51
Gas - CC			2.14			2.14	2.10								2.12	2.48
Gas - CT								5.18	4.18			3.76		3.30	3.44	3.89
Gas - Steam					2.75				-						2.80	3.73
Biogas			19.07			-	-								19.07	12.12
Nuclear				0.59							0.60		0.61		0.60	0.60
Weighted Average	3.82	2.89	2.16	0.59	2.76	2.14	2.10	14.39	4.35	3.32	0.60	3.76	0.61	3.30	1.60	1.51

DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED COST REPORT
SEPTEMBER 2019

Description	Allen	Belews Creek	Buck	Catawba	Cliffside	Dan River	Lee	Lee	Lincoln	Marshall	McGuire	Mill Creek	Oconee	Rockingham	Current Month		Total 12 ME September 2019
	Steam	Steam	CC	Nuclear	Steam - Dual Fuel	CC	CC	Steam/CT	CT	Steam	Nuclear	CT	Nuclear	CT			
Burned MBTU's																	
Coal	3,681,003	7,079,751			2,663,408			-		8,221,932					21,646,094		196,056,584
Oil - CC															-		-
Oil - Steam/CT	29,214	9,387			3,783			2,809	1,272	8,191		-		-	54,656		1,064,246
Gas - CC			3,041,034			3,087,795	3,945,543								10,074,372		105,609,032
Gas - CT								13,558	126,287			414,184		1,536,830	2,090,859		12,896,715
Gas - Steam					291,134			-							291,134		11,998,474
Biogas			3,474			-	-								3,474		138,698
Nuclear				11,750,522							17,014,331		18,933,291		47,698,144		609,252,954
Total	3,710,217	7,089,138	3,044,508	11,750,522	2,958,325	3,087,795	3,945,543	16,367	127,559	8,230,123	17,014,331	414,184	18,933,291	1,536,830	81,858,733		937,016,703
Net Generation (mWh)																	
Coal	339,766	771,836			280,300					856,668					2,248,571		20,354,277
Oil - CC															-		-
Oil - Steam/CT	2,683	1,026			425	-	-	181	91	867		-		-	5,274		103,707
Gas - CC			420,579			425,827	559,930	-							1,406,336		14,879,772
Gas - CT								1,082	9,159			32,597		138,078	180,915		1,124,287
Gas - Steam					30,993			(544)							30,449		1,191,498
Biogas			480			-	-								480		19,447
Nuclear 100%				1,144,585							1,677,292		1,829,962		4,651,839		60,271,149
Hydro (Total System)															(3,026)		2,194,908
Solar (Total System)															14,493		135,383
Total	342,449	772,862	421,059	1,144,585	311,719	425,827	559,930	719	9,250	857,535	1,677,292	32,597	1,829,962	138,078	8,535,331		100,274,428
Cost of Reagents Consumed ($)																	
Ammonia		$533,879	$12,224		$15,005	$10,474	$11,043								$582,624		$3,190,644
Limestone	$182,984	447,154			377,238					$615,174					1,622,550		17,339,341
Sorbents	-	72,504								139,256					211,760		1,934,621
Urea	8,830									105,592					114,422		600,292
Re-emission Chemical		107,874													107,874		353,607
Dibasic Acid	-														-		-
Activated Carbon	40,572									-					40,572		185,577
Lime (water emissions)	-	-								63,590					63,590	A	243,155
Total	$232,386	$1,161,410	$12,224		$392,243	$10,474	$11,043			$923,612					$2,743,392		$23,847,237

Notes:

A - Lime water emissions for the month of September includes $57,261 for Marshall station for the period May 2019 through August 2019. Detail amounts may not add to totals shown due to rounding.

Data is reflected at 100% ownership.

Schedule excludes in-transit and terminal activity.

Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.

Re-emission chemical reagent expense is not recoverable in NC.

Lime (water emissions) expense is not recoverable in SC fuel clause.

DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED CONSUMPTION AND INVENTORY REPORT
SEPTEMBER 2019

Description	Allen Steam	Belews Creek Steam	Buck CC	Cliffside Steam - Dual Fuel	Dan River CC	Lee CC	Lee Steam/CT	Lincoln CT	Marshall Steam	Mill Creek CT	Rockingham CT	Current Month	Total 12 ME September 2019
Coal Data:													
Beginning balance	185,751	662,720		379,397			-		730,719			1,958,588	2,065,153
Tons received during period	74,056	239,975		283,180					76,368			673,579	7,815,088
Inventory adjustments	-	(0)		0			-		(0)			(0)	(195,111)
Tons burned during period	156,032	286,240		108,891			-		326,679			877,842	7,930,805
Ending balance	103,775	616,455		553,686			-		480,408			1,754,324	1,754,324
MBTUs per ton burned	23.59	24.73		24.46			-		25.17			24.66	24.72
Cost of ending inventory ($/ton)	81.07	77.50		70.55			-		86.82			78.07	78.07
Oil Data:													
Beginning balance	102,728	152,591	-	198,389	-	-	625,329	9,736,650	340,752	4,366,782	3,238,190	18,761,411	19,147,705
Gallons received during period	217,939	118,917	-	22,213	-	-	-	-	59,549	-	-	418,618	7,689,313
Miscellaneous adjustments	-	(18,182)	-	(11,387)	-	-	-	-	-	-	-	(29,644)	(353,416)
Gallons burned during period	212,054	67,888		27,421	-	-	20,369	9,202	59,394	-	-	396,253	7,729,470
Ending balance	108,613	185,438	-	181,794	-	-	604,960	9,727,448	340,907	4,366,782	3,238,190	18,754,132	18,754,132
Cost of ending inventory ($/gal)	2.00	1.99	-	2.00	-	-	2.33	2.10	2.02	2.47	2.17	2.20	2.20
Natural Gas Data:													
Beginning balance													
MCF received during period			2,951,695	282,729	3,003,587	3,838,965	13,189	122,527		402,550	1,491,336	12,106,577	126,825,231
MCF burned during period			2,951,695	282,729	3,003,587	3,838,965	13,189	122,527		402,550	1,491,336	12,106,577	126,825,231
Ending balance													
Biogas Data:													
Beginning balance													
MCF received during period			3,372		-	-						3,372	134,317
MCF burned during period			3,372		-	-						3,372	134,317
Ending balance													
Limestone Data:													
Beginning balance	29,139	25,519		19,411					50,810			124,879	146,228
Tons received during period	-	26,250		23,829					26,880			76,959	445,112
Inventory adjustments	-	-		-					-			-	(14,991)
Tons consumed during period	4,016	10,763		7,834					16,939			39,552	414,063
Ending balance	25,122	41,006		35,406					60,751			162,286	162,286
Cost of ending inventory ($/ton)	45.56	37.63		38.31					36.32			38.51	38.51

	Qtr Ending September 2019	Total 12 ME September 2019
Ammonia Data:		
Beginning balance	1,861	1,327
Tons received during period	915	3,481
Tons consumed during period	1,662	3,695
Ending balance	1,113	1,113
Cost of ending inventory ($/ton)	488.17	488.17

Notes:
Detail amounts may not add to totals shown due to rounding.
Schedule excludes in-transit and terminal activity.
Gas is burned as received; therefore, inventory balances are not maintained.

DUKE ENERGY CAROLINAS

ANALYSIS OF COAL PURCHASED

SEPTEMBER 2019

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
ALLEN	SPOT	12,112	$ 866,175	$ 71.51
	CONTRACT	61,944	4,119,497	66.50
	FIXED TRANSPORTATION / ADJUSTMENTS	-	55,018	-
	TOTAL	74,056	5,040,690	68.07
BELEWS CREEK	SPOT	114,569	8,129,063	70.95
	CONTRACT	125,406	8,232,418	65.65
	FIXED TRANSPORTATION / ADJUSTMENTS	-	374,433	-
	TOTAL	239,975	16,735,914	69.74
CLIFFSIDE	SPOT	77,623	5,253,090	67.67
	CONTRACT	205,557	12,765,452	62.10
	FIXED TRANSPORTATION / ADJUSTMENTS	-	547,893	-
	TOTAL	283,180	18,566,435	65.56
MARSHALL	SPOT	-	(7,140)	-
	CONTRACT	76,368	5,034,626	65.93
	FIXED TRANSPORTATION / ADJUSTMENTS	-	608,400	-
	TOTAL	76,368	5,635,886	73.80
ALL PLANTS	SPOT	204,304	14,241,188	69.71
	CONTRACT	469,275	30,151,993	64.25
	FIXED TRANSPORTATION / ADJUSTMENTS	-	1,585,744	-
	TOTAL	673,579	$ 45,978,924	$ 68.26

DUKE ENERGY CAROLINAS

ANALYSIS OF COAL QUALITY RECEIVED

SEPTEMBER 2019

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
ALLEN	7.23	11.29	12,079	1.20
BELEWS CREEK	6.11	9.84	12,586	1.65
CLIFFSIDE	8.69	8.00	12,455	2.17
MARSHALL	6.00	10.86	12,483	1.53

DUKE ENERGY CAROLINAS
ANALYSIS OF OIL PURCHASED
SEPTEMBER 2019

	ALLEN	BELEWS CREEK
VENDOR	HighTowers	HighTowers
SPOT/CONTRACT	Contract	Contract
SULFUR CONTENT %	0	0
GALLONS RECEIVED	217,939	118,917
TOTAL DELIVERED COST	$ 441,087	$ 241,426
DELIVERED COST/GALLON	$ 2.02	$ 2.03
BTU/GALLON	138,000	138,000

	CLIFFSIDE	MARSHALL
VENDOR	HighTowers	HighTowers
SPOT/CONTRACT	Contract	Contract
SULFUR CONTENT %	0	0
GALLONS RECEIVED	22,213	59,549
TOTAL DELIVERED COST	$ 43,334	$ 117,889
DELIVERED COST/GALLON	$ 1.95	$ 1.98
BTU/GALLON	138,000	138,000

Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
October, 2018 - September, 2019
Nuclear Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Oconee 1	6,765,144	847	91.18	90.26
Oconee 2	7,588,653	848	102.16	99.99
Oconee 3	7,599,228	859	100.99	99.99
McGuire 1	9,279,739	1,158	91.48	90.28
McGuire 2	9,941,530	1,158	98.00	96.28
Catawba 1	9,497,071	1,160	93.46	92.98
Catawba 2	9,599,784	1,150	95.29	95.31

Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
October, 2018 through September, 2019
Combined Cycle Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Buck CC	11	1,254,443	206	69.52	76.65
Buck CC	12	1,263,069	206	69.99	76.80
Buck CC	ST10	1,876,832	312	68.67	83.83
Buck CC	Block Total	4,394,344	724	69.29	79.79
Dan River CC	8	1,471,936	199	84.44	88.21
Dan River CC	9	1,457,059	199	83.58	87.75
Dan River CC	ST7	2,171,975	320	77.48	94.69
Dan River CC	Block Total	5,100,970	718	81.10	90.97
WS Lee CC	11	1,600,358	234	78.25	80.70
WS Lee CC	12	1,594,994	233	78.24	79.93
WS Lee CC	ST10	2,208,553	337	74.81	78.63
WS Lee CC	Block Total	5,403,905	803	76.80	79.73

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.

Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
October, 2018 through September, 2019

Baseload Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Belews Creek 1	4,239,493	1,110	43.60	77.41
Belews Creek 2	3,362,091	1,110	34.58	68.62
Marshall 3	2,601,940	658	45.14	79.57
Marshall 4	3,179,611	660	55.00	80.91

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
October, 2018 through September, 2019

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Cliffside 6	3,953,755	848	53.24	70.88
Marshall 1	971,901	380	29.20	77.95
Marshall 2	880,905	380	26.46	62.92

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
October, 2018 through September, 2019
Other Cycling Steam Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Allen	1	117,188	167	8.01	89.77
Allen	2	90,030	167	6.15	89.80
Allen	3	139,787	270	5.91	76.40
Allen	4	171,138	267	7.32	82.09
Allen	5	384,284	259	16.94	86.43
Cliffside	5	1,559,078	546	32.60	74.86
Lee	3	-5,713	173	0.00	68.09

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
October, 2018 through September, 2019
Combustion Turbine Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Lee CT	15,510	96	98.23
Lincoln CT	22,151	1,565	91.93
Mill Creek CT	106,374	752	99.39
Rockingham CT	984,246	895	92.36

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
October, 2018 through September, 2019
Hydroelectric Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Conventional Hydroelectric Stations:			
Bear Creek	21,140	9.5	67.34
Bridgewater	109,528	31.5	94.88
Bryson	3,498	0.8	98.23
Cedar Cliff	26,955	6.8	98.49
Cedar Creek	211,362	45.0	96.18
Cowans Ford	335,425	324.0	65.20
Dearborn	197,866	42.0	86.31
Fishing Creek	211,538	50.0	82.92
Franklin	1,649	0.9	65.21
Gaston Shoals	10,664	4.1	97.31
Great Falls	-76	12.0	74.90
Keowee	99,929	152.0	94.39
Lookout Shoals	166,339	27.0	99.19
Mission	3,592	1.7	60.66
Mountain Island	223,415	62.0	83.56
Nantahala	251,425	50.0	89.98
Ninety-Nine Islands	82,369	15.2	73.06
Oxford	142,058	40.0	85.16
Queens Creek	5,883	1.4	95.32
Rhodhiss	113,854	33.4	96.86
Tennessee Creek	28,730	9.8	49.08
Thorpe	113,179	19.7	97.19
Tuckasegee	10,739	2.5	99.29
Tuxedo	27,196	5.9	98.55
Wateree	392,533	85.0	91.83
Wylie	92,496	72.0	18.52
Pumped Storage Hydroelectric Stations:			
Gross Generation			
Bad Creek	2,161,264	1,360.0	93.63
Jocassee	1,101,206	780.0	91.17
Energy for Pumping			
Bad Creek	-2,742,257		
Jocassee	-1,208,591		
Net Generation			
Bad Creek	-580,993		
Jocassee	-107,385		

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

Period: September, 2019

Station	Unit	Date of Outage	Duration of Outage	Scheduled / Unscheduled	Cause of Outage	Reason Outage Occurred	Remedial Action Taken
Oconee	1	None					
	2	None					
	3	None					
McGuire	1	None					
	2	None					
Catawba	1	None					
	2	09/14/2019 - 10/01/2019	403.60	Scheduled	End-of-cycle 23 refueling outage		

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
September 2019

Belews Creek Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
1	9/7/2019 3:06:00 AM To 10/1/2019 12:00:00 AM	Sch	1812	Boiler Inspections - Scheduled or Routine	Belews Creek Unit 1 2019 Planned Outage	

Buck Combined Cycle Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
11	9/9/2019 1:58:00 PM To 9/10/2019 1:29:00 AM	Sch	4261	Turbine Control Valves	GT11 EHC oil leak - Repaired hydraulic oil leak on combined cycle turbine	
12	9/9/2019 1:22:00 PM To 9/10/2019 1:30:00 AM	Sch	4261	Turbine Control Valves	GT12 EHC oil leak - Repaired hydraulic oil leak on combined cycle turbine	
ST10	9/9/2019 1:55:00 PM To 9/10/2019 2:35:00 AM	Sch	4261	Turbine Control Valves	ST10 EHC oil leak - Repaired hydraulic oil leak on steam turbine control valve.	

Dan River Combined Cycle Station

No Outages at Baseload Units During the Month.

Marshall Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
4	9/18/2019 1:21:00 AM To 9/19/2019 5:00:00 PM	Sch	1000	Furnace Wall Leaks	Waterwall Tube leak Steam Cooled Wall "B" Furance 7th Floor.	

WS Lee Combined Cycle

No Outages at Baseload Units During the Month.

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.

Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

September 2019
Oconee Nuclear Station

	Unit 1		Unit 2		Unit 3	
(A) MDC (mW)	847		848		859	
(B) Period Hours	720		720		720	
(C) Net Gen (mWh) and Capacity Factor (%)	605,979	99.37	612,413	100.30	611,570	98.88
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00	0	0.00	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	0	0.00	0	0.00	244	0.04
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	0	0.00	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	3,861	0.63	-1,853	-0.30	6,666	1.08
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00	0	0.00
(J) Net mWh Possible in Period	609,840	100.00%	610,560	100.00%	618,480	100.00%
(K) Equivalent Availability (%)		98.23		97.68		97.78
(L) Output Factor (%)		99.37		100.30		98.88
(M) Heat Rate (BTU/NkWh)		10,414		10,311		10,322

* Estimate
FOOTNOTE: D and F Include Ramping Losses

Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

September 2019
McGuire Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	1158		1158	
(B) Period Hours	720		720	
(C) Net Gen (mWh) and Capacity Factor (%)	841,467	100.92	835,825	100.25
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	0	0.00	0	0.00
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-7,707	-0.92	-2,065	-0.25
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	833,760	100.00%	833,760	100.00%
(K) Equivalent Availability (%)		98.06		97.78
(L) Output Factor (%)		100.92		100.25
(M) Heat Rate (BTU/NkWh)		10,102		10,186

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

September 2019
Catawba Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	1160		1150	
(B) Period Hours	720		720	
(C) Net Gen (mWh) and Capacity Factor (%)	831,078	99.51	313,507	37.86
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00	464,140	56.06
* (E) Net mWh Not Gen due to Partial Scheduled Outages	1,269	0.15	50,353	6.08
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	2,853	0.34	0	0.00
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	835,200	100.00%	828,000	100.00%
(K) Equivalent Availability (%)		97.17		42.01
(L) Output Factor (%)		99.51		86.16
(M) Heat Rate (BTU/NkWh)		10,235		10,349

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
September 2019

Belews Creek Station

	Unit 1	Unit 2
(A) MDC (mW)	1,110	1,110
(B) Period Hrs	720	720
(C) Net Generation (mWh)	124,045	648,817
(D) Capacity Factor (%)	15.52	81.18
(E) Net mWh Not Generated due to Full Scheduled Outages	635,919	0
(F) Scheduled Outages: percent of Period Hrs	79.57	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	7,157
(L) Forced Derates: percent of Period Hrs	0.00	0.90
(M) Net mWh Not Generated due to Economic Dispatch	39,236	143,226
(N) Economic Dispatch: percent of Period Hrs	4.91	17.92
(O) Net mWh Possible in Period	799,200	799,200
(P) Equivalent Availability (%)	20.43	99.10
(Q) Output Factor (%)	75.97	81.18
(R) Heat Rate (BTU/NkWh)	9,511	9,108

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
September 2019

Buck Combined Cycle Station

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	206	206	312	724
(B) Period Hrs	720	720	720	720
(C) Net Generation (mWh)	120,229	121,480	179,350	421,059
(D) Capacity Factor (%)	81.06	81.90	79.84	80.77
(E) Net mWh Not Generated due to Full Scheduled Outages	2,372	2,499	3,952	8,824
(F) Scheduled Outages: percent of Period Hrs	1.60	1.69	1.76	1.69
(G) Net mWh Not Generated due to Partial Scheduled Outages	19,837	19,820	0	39,658
(H) Scheduled Derates: percent of Period Hrs	13.37	13.36	0.00	7.61
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	5,881	4,520	41,338	51,739
(N) Economic Dispatch: percent of Period Hrs	3.97	3.05	18.40	9.93
(O) Net mWh Possible in Period	148,320	148,320	224,640	521,280
(P) Equivalent Availability (%)	85.03	84.95	98.24	90.70
(Q) Output Factor (%)	83.43	83.31	81.27	82.46
(R) Heat Rate (BTU/NkWh)	10,579	10,357	2,371	7,019

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
September 2019

Dan River Combined Cycle Station

	Unit 8	Unit 9	Unit ST07	Block Total
(A) MDC (mW)	199	199	320	718
(B) Period Hrs	720	720	720	720
(C) Net Generation (mWh)	121,724	122,244	181,859	425,827
(D) Capacity Factor (%)	84.96	85.32	78.93	82.37
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	20,160	20,160	0	40,320
(H) Scheduled Derates: percent of Period Hrs	14.07	14.07	0.00	7.80
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	1,396	876	48,541	50,813
(N) Economic Dispatch: percent of Period Hrs	0.97	0.61	21.07	9.83
(O) Net mWh Possible in Period	143,280	143,280	230,400	516,960
(P) Equivalent Availability (%)	85.93	85.93	100.00	92.20
(Q) Output Factor (%)	86.63	87.04	80.92	84.20
(R) Heat Rate (BTU/NkWh)	10,765	10,724	2,323	7,148

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
September 2019

Marshall Station

	Unit 3	Unit 4
(A) MDC (mW)	658	660
(B) Period Hrs	720	720
(C) Net Generation (mWh)	379,528	330,165
(D) Capacity Factor (%)	80.11	69.48
(E) Net mWh Not Generated due to Full Scheduled Outages	0	26,169
(F) Scheduled Outages: percent of Period Hrs	0.00	5.51
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	9,649
(L) Forced Derates: percent of Period Hrs	0.00	2.03
(M) Net mWh Not Generated due to Economic Dispatch	94,232	109,217
(N) Economic Dispatch: percent of Period Hrs	19.89	22.98
(O) Net mWh Possible in Period	473,760	475,200
(P) Equivalent Availability (%)	100.00	92.46
(Q) Output Factor (%)	80.11	79.02
(R) Heat Rate (BTU/NkWh)	9,673	9,264

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
September 2019

WS Lee Combined Cycle

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	237	236	337	810
(B) Period Hrs	720	720	720	720
(C) Net Generation (mWh)	161,692	166,315	231,923	559,930
(D) Capacity Factor (%)	94.76	97.88	95.58	96.01
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	17,280	17,280
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	7.12	2.96
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	8,948	3,605	0	12,553
(N) Economic Dispatch: percent of Period Hrs	5.24	2.12	0.00	2.15
(O) Net mWh Possible in Period	170,640	169,920	242,640	583,200
(P) Equivalent Availability (%)	100.00	100.00	92.88	97.04
(Q) Output Factor (%)	96.12	97.88	95.58	96.41
(R) Heat Rate (BTU/NkWh)	10,501	10,300	2,482	7,120

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

Duke Energy Carolinas
Intermediate Power Plant Performance Review Plan
September 2019

		Cliffside Station Cliffside 6
(A)	**MDC (mW)**	849
(B)	**Period Hrs**	720
(C)	**Net Generation (mWh)**	104,043
(D)	**Net mWh Possible in Period**	611,280
(E)	**Equivalent Availability (%)**	20.08
(F)	**Output Factor (%)**	84.26
(G)	**Capacity Factor (%)**	17.02

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Carolinas
Peaking Power Plant Performance
Review Plan
September 2019

	Cliffside Station Unit 5
(A) MDC (mW)	546
(B) Period Hrs	720
(C) Net Generation (mWh)	207,676
(D) Net mWh Possible in Period	393,120
(E) Equivalent Availability (%)	68.33
(F) Output Factor (%)	83.49
(G) Capacity Factor (%)	52.83

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

October 2018 - September 2019
Oconee Nuclear Station

	Unit 1		Unit 2		Unit 3	
(A) MDC (mW)	847		848		859	
(B) Period Hours	8760		8760		8760	
(C) Net Gen (mWh) and Capacity Factor (%)	6,765,144	91.18	7,588,653	102.16	7,599,228	100.99
(D) Net mWh Not Gen due to Full Schedule Outages	524,378	7.07	0	0.00	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	29,951	0.40	455	0.01	452	0.01
(F) Net mWh Not Gen due to Full Forced Outages	151,811	2.05	0	0.00	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-51,563	-0.70	-160,628	-2.17	-74,840	-1.00
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00	0	0.00
(J) Net mWh Possible in Period	7,419,720	100.00%	7,428,480	100.00%	7,524,840	100.00%
(K) Equivalent Availability (%)		90.26		99.99		99.99
(L) Output Factor (%)		100.32		102.16		100.99
(M) Heat Rate (BTU/NkWh)		10,238		10,117		10,103

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

October 2018 - September 2019
McGuire Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	1158		1158	
(B) Period Hours	8760		8760	
(C) Net Gen (mWh) and Capacity Factor (%)	9,279,739	91.48	9,941,530	98.00
(D) Net mWh Not Gen due to Full Schedule Outages	687,852	6.78	351,588	3.47
* (E) Net mWh Not Gen due to Partial Scheduled Outages	66,426	0.65	13,794	0.14
(F) Net mWh Not Gen due to Full Forced Outages	165,690	1.63	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-55,627	-0.54	-162,832	-1.61
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	10,144,080	100.00%	10,144,080	100.00%
(K) Equivalent Availability (%)		90.28		96.28
(L) Output Factor (%)		99.88		101.52
(M) Heat Rate (BTU/NkWh)		10,023		10,039

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

October 2018 - September 2019
Catawba Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	1160		1150	
(B) Period Hours	8760		8760	
(C) Net Gen (mWh) and Capacity Factor (%)	9,497,071	93.46	9,599,784	95.29
(D) Net mWh Not Gen due to Full Schedule Outages	682,776	6.72	464,140	4.61
* (E) Net mWh Not Gen due to Partial Scheduled Outages	46,874	0.46	65,549	0.65
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-65,121	-0.64	-55,473	-0.55
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	10,161,600	100.00%	10,074,000	100.00%
(K) Equivalent Availability (%)		92.98		95.31
(L) Output Factor (%)		100.19		99.90
(M) Heat Rate (BTU/NkWh)		10,111		10,060

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
October, 2018 through September, 2019

Belews Creek Station

	Unit 1	Unit 2
(A) MDC (mW)	1,110	1,110
(B) Period Hrs	8,760	8,760
(C) Net Generation (mWh)	4,239,493	3,362,091
(D) Capacity Factor (%)	43.60	34.58
(E) Net mWh Not Generated due to Full Scheduled Outages	2,025,214	2,777,960
(F) Scheduled Outages: percent of Period Hrs	20.83	28.57
(G) Net mWh Not Generated due to Partial Scheduled Outages	2,443	14,669
(H) Scheduled Derates: percent of Period Hrs	0.03	0.15
(I) Net mWh Not Generated due to Full Forced Outages	87,875	138,325
(J) Forced Outages: percent of Period Hrs	0.90	1.42
(K) Net mWh Not Generated due to Partial Forced Outages	80,594	119,843
(L) Forced Derates: percent of Period Hrs	0.83	1.23
(M) Net mWh Not Generated due to Economic Dispatch	3,287,982	3,310,712
(N) Economic Dispatch: percent of Period Hrs	33.81	34.05
(O) Net mWh Possible in Period	9,723,600	9,723,600
(P) Equivalent Availability (%)	77.41	68.62
(Q) Output Factor (%)	75.50	69.28
(R) Heat Rate (BTU/NkWh)	9,264	9,542

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.
- Footnote: (R) Includes Light Off BTU's

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
October, 2018 through September, 2019

Buck Combined Cycle Station

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	206	206	312	724
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,254,443	1,263,069	1,876,832	4,394,344
(D) Capacity Factor (%)	69.52	69.99	68.67	69.29
(E) Net mWh Not Generated due to Full Scheduled Outages	297,776	295,098	418,262	1,011,137
(F) Scheduled Outages: percent of Period Hrs	16.50	16.35	15.30	15.94
(G) Net mWh Not Generated due to Partial Scheduled Outages	123,384	123,583	23,686	270,654
(H) Scheduled Derates: percent of Period Hrs	6.84	6.85	0.87	4.27
(I) Net mWh Not Generated due to Full Forced Outages	185	0	0	185
(J) Forced Outages: percent of Period Hrs	0.01	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	128,771	122,810	414,340	665,920
(N) Economic Dispatch: percent of Period Hrs	7.14	6.81	15.16	10.50
(O) Net mWh Possible in Period	1,804,560	1,804,560	2,733,120	6,342,240
(P) Equivalent Availability (%)	76.65	76.80	83.83	79.79
(Q) Output Factor (%)	84.00	84.33	81.47	82.99
(R) Heat Rate (BTU/NkWh)	10,243	9,992	2,361	6,804

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.
- Footnote: (R) Includes Light Off BTU's

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
October, 2018 through September, 2019

Dan River Combined Cycle Station

	Unit 8	Unit 9	Unit ST07	Block Total
(A) MDC (mW)	199	199	320	718
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,471,936	1,457,059	2,171,975	5,100,970
(D) Capacity Factor (%)	84.44	83.58	77.48	81.10
(E) Net mWh Not Generated due to Full Scheduled Outages	65,325	73,802	106,757	245,885
(F) Scheduled Outages: percent of Period Hrs	3.75	4.23	3.81	3.91
(G) Net mWh Not Generated due to Partial Scheduled Outages	139,189	138,595	8,514	286,298
(H) Scheduled Derates: percent of Period Hrs	7.98	7.95	0.30	4.55
(I) Net mWh Not Generated due to Full Forced Outages	1,071	1,078	2,411	4,560
(J) Forced Outages: percent of Period Hrs	0.06	0.06	0.09	0.07
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	31,111	31,111
(L) Forced Derates: percent of Period Hrs	0.00	0.00	1.11	0.49
(M) Net mWh Not Generated due to Economic Dispatch	65,719	72,706	482,432	620,857
(N) Economic Dispatch: percent of Period Hrs	3.77	4.17	17.21	9.87
(O) Net mWh Possible in Period	1,743,240	1,743,240	2,803,200	6,289,680
(P) Equivalent Availability (%)	88.21	87.75	94.69	90.97
(Q) Output Factor (%)	88.16	88.46	81.11	85.09
(R) Heat Rate (BTU/NkWh)	10,612	10,587	2,408	7,112

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.
- Footnote: (R) Includes Light Off BTU's

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
October, 2018 through September, 2019

Marshall Station

	Unit 3	Unit 4
(A) MDC (mW)	658	660
(B) Period Hrs	8,760	8,760
(C) Net Generation (mWh)	2,601,940	3,179,611
(D) Capacity Factor (%)	45.14	55.00
(E) Net mWh Not Generated due to Full Scheduled Outages	554,124	799,205
(F) Scheduled Outages: percent of Period Hrs	9.61	13.82
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	1,290
(H) Scheduled Derates: percent of Period Hrs	0.00	0.02
(I) Net mWh Not Generated due to Full Forced Outages	602,278	215,545
(J) Forced Outages: percent of Period Hrs	10.45	3.73
(K) Net mWh Not Generated due to Partial Forced Outages	21,010	87,624
(L) Forced Derates: percent of Period Hrs	0.36	1.52
(M) Net mWh Not Generated due to Economic Dispatch	1,984,728	1,498,325
(N) Economic Dispatch: percent of Period Hrs	34.43	25.92
(O) Net mWh Possible in Period	5,764,080	5,781,600
(P) Equivalent Availability (%)	79.57	80.91
(Q) Output Factor (%)	71.38	74.24
(R) Heat Rate (BTU/NkWh)	9,715	9,508

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.
- Footnote: (R) Includes Light Off BTU's

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
October, 2018 through September, 2019

WS Lee Combined Cycle

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	234	233	337	803
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,600,358	1,594,994	2,208,553	5,403,905
(D) Capacity Factor (%)	78.25	78.24	74.81	76.80
(E) Net mWh Not Generated due to Full Scheduled Outages	265,920	270,493	381,181	917,593
(F) Scheduled Outages: percent of Period Hrs	13.00	13.27	12.91	13.04
(G) Net mWh Not Generated due to Partial Scheduled Outages	27,666	25,296	104,978	157,941
(H) Scheduled Derates: percent of Period Hrs	1.35	1.24	3.56	2.24
(I) Net mWh Not Generated due to Full Forced Outages	96,569	109,081	144,595	350,245
(J) Forced Outages: percent of Period Hrs	4.72	5.35	4.90	4.98
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	173	173
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.01	0.00
(M) Net mWh Not Generated due to Economic Dispatch	54,681	38,779	112,640	206,100
(N) Economic Dispatch: percent of Period Hrs	2.67	1.90	3.82	2.93
(O) Net mWh Possible in Period	2,045,194	2,038,643	2,952,120	7,035,957
(P) Equivalent Availability (%)	80.70	79.93	78.63	79.73
(Q) Output Factor (%)	96.02	96.77	91.85	94.48
(R) Heat Rate (BTU/NkWh)	10,255	10,188	2,597	7,106

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.
- Footnote: (R) Includes Light Off BTU's

Duke Energy Carolinas
Intermediate Power Plant
Performance Review Plan
October, 2018 through September, 2019

Cliffside Station

Units	Unit 6
(A) MDC (mW)	848
(B) Period Hrs	8,760
(C) Net Generation (mWh)	3,953,755
(D) Net mWh Possible in Period	7,426,195
(E) Equivalent Availability (%)	70.88
(F) Output Factor (%)	80.78
(G) Capacity Factor (%)	53.24

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Carolinas
Peaking Power Plant
Performance Review Plan
October, 2018 through September, 2019

Cliffside Station

Units	Unit 5
(A) MDC (mW)	546
(B) Period Hrs	8,760
(C) Net Generation (mWh)	1,559,078
(D) Net mWh Possible in Period	4,782,960
(E) Equivalent Availability (%)	72.94
(F) Output Factor (%)	68.03
(G) Capacity Factor (%)	32.60

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Carolinas
Outages for 100 mW or Larger Units
September, 2019

Unit Name	Capacity Rating (mW)	Full Outage Hours		
		Scheduled	Unscheduled	Total
Oconee 1	847	0.00	0.00	0.00
Oconee 2	848	0.00	0.00	0.00
Oconee 3	859	0.00	0.00	0.00
McGuire 1	1,158	0.00	0.00	0.00
McGuire 2	1,158	0.00	0.00	0.00
Catawba 1	1,160	0.00	0.00	0.00
Catawba 2	1,150	403.60	0.00	403.60

Duke Energy Carolinas
Outages for 100 mW or Larger Units
September 2019

Unit Name	Capacity Rating (mW)	Full Outage Hours		Total Outage Hours
		Scheduled	Unscheduled	
Allen Steam 1	167	8.00	0.00	8.00
Allen Steam 2	167	0.00	0.00	0.00
Allen Steam 3	270	0.00	0.00	0.00
Allen Steam 4	267	0.00	17.50	17.50
Allen Steam 5	259	0.00	10.75	10.75
Belews Creek Steam 1	1,110	572.90	0.00	572.90
Belews Creek Steam 2	1,110	0.00	0.00	0.00
Buck CC 11	206	11.52	0.00	11.52
Buck CC 12	206	12.13	0.00	12.13
Buck CC ST10	312	12.67	0.00	12.67
Cliffside Steam 5	546	215.98	0.00	215.98
Cliffside Steam 6	849	574.57	0.00	574.57
Dan River CC 8	199	0.00	0.00	0.00
Dan River CC 9	199	0.00	0.00	0.00
Dan River CC ST7	320	0.00	0.00	0.00
Lee Steam 3	173	256.00	330.00	586.00
Marshall Steam 1	380	720.00	0.00	720.00
Marshall Steam 2	380	0.00	0.00	0.00
Marshall Steam 3	658	0.00	0.00	0.00
Marshall Steam 4	660	39.65	0.00	39.65
Rockingham CT1	179	0.00	0.00	0.00
Rockingham CT2	179	256.50	0.00	256.50
Rockingham CT3	179	0.00	0.00	0.00
Rockingham CT4	179	0.00	0.00	0.00
Rockingham CT5	179	0.00	0.00	0.00

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.

Duke Energy Carolinas
Outages for 100 mW or Larger Units
September 2019

Unit Name	Capacity Rating (mW)	Full Outage Hours		Total Outage Hours
		Scheduled	Unscheduled	
WS Lee CC 11	237	0.00	0.00	0.00
WS Lee CC 12	236	0.00	0.00	0.00
WS Lee CC ST 10	337	0.00	0.00	0.00

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.